

A company dedicated to solving ergonomic and material handling problems since 1955.

OWNER'S MANUAL

POWER LIFT JIB CRANES MODELS WTJ-20- & WTJ-E LIFTER JIBS • MODEL VAN-J

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WARNINGS & SAFETY INSTRUCTIONS

- **Ensure that all employees understand and follow the following instructions.**
- **Failure to read and understand this owner's manual before using or servicing the lifting jib constitutes a misuse of the product.**
- Personnel who will use or care for this product must be familiar with this material.
- The load must be removed before any work is performed on the lifting jib.
- Do not use to lift, support, or transport personnel.
- Always watch the jib and the load carefully when the jib is in use.
- Fold the jib down and secure it alongside the jib mast before moving the vehicle to which it is mounted.
- Do not move the vehicle with a load suspended from the lifting jib.
- Keep personnel clear of the lifting jib when it is loaded or being rotated. Never allow personnel to be under or on any part of the suspended load.
- Keep hands, fingers, loose clothing, etc., clear of the drum and cable area, and use caution to avoid pinching when swinging loads sideways.
- Do not use the lifting jib if any damage or unusual noise is observed.
- AC-powered winches must only be supplied with a 115V, GFCI-protected, effectively grounded supply circuit.
- Observe all applicable DOT, state, and federal regulations concerning the installation and use of vehicle-mounted equipment.
- Ensure that all safety and warning labels stay in place and are legible.
- Do not perform any modifications to the lifting jib without the manufacturer's approval. Failure to receive authorization for changes to the equipment could void the warranty.
- Maintenance and repairs are to be done only by personnel qualified to perform the required work.
- Consideration will not be given for warranty repair charges without prior written authorization by the manufacturer.

REPLACEMENT PARTS

We take pride in using quality parts on the equipment we manufacture. We are not responsible for equipment problems resulting from the use of unapproved replacement parts.

To order replacement or spare parts for this equipment, contact the factory.

In any communication with the factory please be prepared to provide the machine's serial number, which is indicated on the machine dataplate.

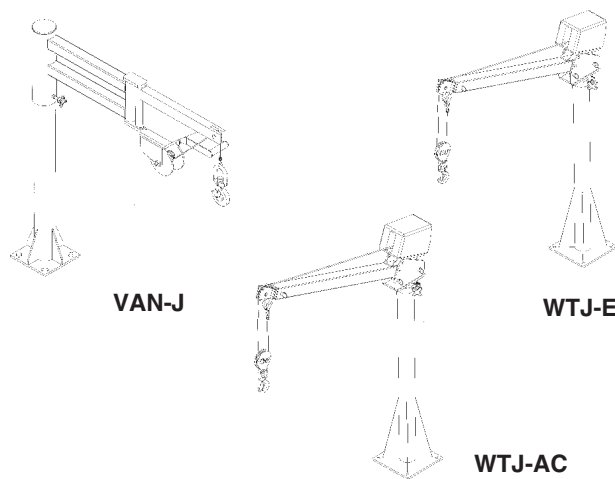
RECEIVING INSTRUCTIONS

Every unit is thoroughly tested and inspected prior to shipment. However, it is possible that the unit could incur damage during transit.

Inspect the unit closely when it arrives. If you see evidence of damage or rough handling to either the packaging or to the product when it is being unloaded, immediately make a note of it on the Bill of Lading!

It is important that you remove the product's packaging upon its arrival to ensure that there is no concealed damage or to enable a timely claim with the carrier for freight damage.

Also verify that the product and its specifications are as ordered.



ENGLISH

ESPANOL

FRANÇAIS

INSTALLATION INSTRUCTIONS - WTJ, VAN-J

Review this entire page before installing the lifting jib.

Consult the factory in the event there are any questions or problems at the time of installation, or for information regarding optional features not covered by the owner's manual.

The lifting jib must be securely anchored to a solid mounting surface before use! *Before mounting a lifting jib in a vehicle, consult the vehicle manufacturer for a specific mounting location and mounting hardware recommendations.*

- The installation must be made so that it complies with all the regulations applicable to the machine and its location, including DOT, state, and federal regulations. The end-user must verify that the supplied equipment is installed so it will be suited to the environment in which it will be used.
- The end user must verify that the vehicle surface to which the lifting jib will be mounted has sufficient strength and stability, not only for lifting static loads but also for the dynamic forces that develop from being mounted on a moving vehicle when the lifting jib is in the stowed position.
- Modifications or additions to the lifting jib without prior manufacturer's authorization may void the product's warranty. The addition of ancillary equipment to the lifting jib may necessitate that its load capacity be reduced.
- Installation must be performed by suitably trained personnel with access to the appropriate equipment. The electrical aspects of the installation should be performed by an electrician.

For a typical installation of a standard lifting jib (WTJ models or the VAN-J), you will need the following:

1. A means to unload the lifting jib from the freight truck.
2. A smooth, level, and adequately strong surface on which to mount the lifting jib.

Note: Backing or stiffener plates may be required to provide sufficient support for the lifting jib. Consult the vehicle's manufacturer for assistance in determining the need for additional materials to ensure proper mounting.

3. A power drill, drill bits, and hardware. Again, consult the vehicle's manufacturer to determine the best size and type of hardware with which to anchor the lifting jib to a vehicle bed.
4. If the VAN-J is to be installed in a covered vehicle, verify that there is enough clearance inside the vehicle to mount the unit and that the jib will be able to swing appropriately. The VAN-J has an overall height of 46", and the VAN-J-DC is 55".
5. For units with an AC-powered winch, it is recommended that a ground-fault circuit interrupter device be used in the supply circuit to protect personnel from electrical shock. The AC winch must only be used with effectively grounded supply circuits.

To install a standard lifting jib (WTJ, WTJ-E and VAN-J):

1. It is recommended that the lifting jib remain completely assembled for installation. If the base is removed during the installation of a WTJ model, be sure that the bearing disk is still inside the bottom tube before reinstalling the jib pole.
2. Using two people, move the lifting jib into the desired position on the vehicle bed. Use care to avoid damaging the winch or any hydraulic components (when supplied). Choose a location that will allow for an adequate swinging radius. Consult the vehicle manufacturer for recommendations regarding the mounting location.
3. Use the lifting jib's base as a template to mark the drill hole locations on the vehicle bed.
4. Remove the lifting jib and drill holes through the vehicle bed, sized appropriately for the hardware selected for mounting the lifting jib.
5. Using two people, align the lifting jib's base with the holes drilled into the vehicle bed. With one person holding the lifting jib steady, anchor its base to the vehicle's bed using the hardware and any backing or stiffener plates recommended by the vehicle manufacturer.
6. Raise the end of the jib and secure it at the desired lifting angle.
7. Verify that the jib swings freely and without obstruction throughout the desired range of use.
8. Connect the power supply (if applicable) to the winch's power supply cord. On DC-powered units, the included power supply cord and pendant control cable must be plugged into the winch.
9. Run the winch down and up to ensure it operates properly and verify that the winch cable is spooling on and off the reel smoothly.
10. Test the lifting jib at 125% of the rated capacity prior to its initial use. After testing, visually inspect the lifting jib and the vehicle for evidence of deformation, cracking, fatigue, or other damage. If any of these conditions are seen, make necessary corrections to the installation and retest the unit again before approving it for use.

LOADING INSTRUCTIONS - WTJ, WTJ-E, VAN-J

- Observe all pertinent DOT regulations regarding the installation, transportation and use of the lifting jib .
- Ensure that all employees involved in the operation of this lifting jib understand and follow these instructions!

The standard model lifting jib is suitable for being mounted on many pickup trucks and trailers. It is intended to be used to pick up static, non-hazardous loads from the ground and load them onto the vehicle to which the jib is mounted, or vice versa.

Caution: Do not allow the lifting jib to be used by children or unauthorized personnel. Always fold the jib arm down, secure it alongside the jib mast, and disconnect the winch from its power supply when not in use.

• LOADING:

The load rating, in pounds, is shown on the machine dataplate located on the side of the rotating head of the jib. It indicates the net capacity of the jib lifting a load that has a center of gravity directly below the jib pulley.

Note: The addition of any ancillary equipment to the lifting jib by third parties must be taken into account when determining the maximum working load to be placed on the load hook.

Warning: Do not exceed the lifting jib's load ratings. Injury to personnel or permanent damage to the jib or winch could result from exceeding the listed capacity.

Warning: Only lift loads that are directly below the hook. Do not use the lifting jib in any application that will create side-loading of the winch cable or jib arm. Never use the jib to pull or drag loads.

Warning: The load hook's safety latch must be closed before lifting a load.

Warning: Loads must be lifted using only the winch load hook. Do not use straps or rigging over the top of the jib arm. Do not attempt to lift any load using the cable end hook. The cable end hook is to be connected to the bracket under the end of the jib arm at all times.

Warning: Loads must be connected to the lifting jib's load hook with appropriate lifting rigging and devices.

Caution: Ensure that at least three turns of cable remain on the winch reel at all times.

WTJ-20-3- . . . JIB CAPACITY CHART

JIB ARM POSITION	FULLY RETRACTED	MIDDLE POSITION	FULLY EXTENDED
20°	1,000 LBS.	770 LBS.	600 LBS.
40°	1,250 LBS.	950 LBS.	780 LBS.
60°	2,000 LBS.	1,500 LBS.	1,200 LBS.

WTJ-20-4- . . . JIB CAPACITY CHART

JIB ARM POSITION	FULLY RETRACTED	SECOND POSITION / THIRD POSITION	FULLY EXTENDED
20°	1,500 LBS.	1,200 LBS. / 1,000 LBS.	850 LBS.
40°	1,850 LBS.	1,450 LBS. / 1,250 LBS.	1,050 LBS.
60°	1,850 LBS.	2,000 LBS. / 1,900 LBS.	1,800 LBS.

WTJ-E-15-3- . . . JIB CAPACITY CHART

JIB ARM POSITION	FULLY RETRACTED	MIDDLE POSITION	FULLY EXTENDED
15°	1,110 LBS.	650 LBS.	550 LBS.
25°	1,250 LBS.	850 LBS.	650 LBS.
40°	1,500 LBS.	1,150 LBS.	800 LBS.

OPERATION INSTRUCTIONS - WTJ, WTJ-E, VAN-J

Note: The powered winch is not equipped with independent overload protection. Always pay close attention to the sound of the winch and to the load that is being raised. If the cable tension increases suddenly, indicating a bind, stop the winch immediately.

Warning: The vehicle to which the lifting jib is mounted must be level and unable to move or tip. If the lifting jib is mounted on a trailer, chock the trailer's wheels before operating the lifting jib.

Warning: Keep all personnel clear of the lifting jib whenever it is loaded or being rotated. Never allow personnel to be under any part of the suspended load.

Caution: Ensure that at least three turns of cable remain on the winch reel at all times.

Caution: Always carefully watch and constantly supervise any load suspended from the lifting jib.

Caution: Never use the lifting jib or winch if any damage or unusual noise is observed, if it is in need of repairs, or if it seems to be malfunctioning.

VAN-J MODELS:

The VAN-J model lifting jib uses a hand crank to raise and lower the load hook.

When standing at the handle side of the winch, rotating the handle counterclockwise will raise the hook, and rotating it clockwise will lower the hook.

The DC-powered VAN-J-DC model is furnished with a constant-pressure (dead-man style) pushbutton control.

Connect the winch's power cord to the appropriate power supply. AC-powered units must be connected to a 115V supply circuit that is effectively grounded and that provides GFCI protection.

Pressing the "UP" button will turn on the winch to retract the cable and therefore raise the hook and any connected load. The winch will operate only while the button is pressed. Upon releasing the pushbutton, the winch will stop and hold its position.

Pressing the "DOWN" button will turn on the winch to allow cable to spool off the winch drum and therefore lower the hook and any connected load. Again, releasing the button will stop the winch movement, and the winch will hold its position.

When you are finished using the VAN-J, winch the lifting hook up to the end of the jib arm. Rotate the outer jib arm so that it folds alongside the inner arm. Rotate the entire, folded jib arm around so that the outer arm is against the inside wall of the van. Tighten the mast's securing bolt so that the jib arm cannot swing.

Ensure that all safety and warning labels stay in place and are legible. Refer to the labels page in this manual.

WTJ MODELS WITH A POWERED WINCH:

Note: The auxiliary handle provided with the AC winch is provided for emergency use only. Always remove this handle when it is not in use. Do not operate the winch motor or allow the winch to spin freely with the handle attached.

- The DC-powered WTJ is furnished with a constant-pressure (dead-man style) pushbutton control.
- The AC-powered WTJ has a toggle switch located on the winch body.

Connect the winch's power cord to the appropriate power supply. AC-powered units must be connected to a 115V supply circuit that is effectively grounded and that provides GFCI protection.

Pressing the "UP" button will turn on the winch to retract the cable and therefore raise the hook and any connected load. The winch will operate only while the button is pressed. Upon releasing the pushbutton, the winch will stop and hold its position.

Pressing the "DOWN" button will turn on the winch to allow cable to spool off the winch drum and therefore lower the hook and any connected load. Again, releasing the button will stop the winch movement, and the winch will hold its position.

Note: Unplug the winch cords when not in use, and store them with the vehicle.

- Press the "DOWN" button to lower the load hook away from the end of the jib arm.
- Raise the jib arm to the desired angle:

(WTJ-E) pull the jib arm retaining pin from the end of the jib arm support. Raise the jib arm to the desired angle, align the hole in the end of the jib arm support with the nearest hole in the bracket on top of the arm, and reinsert the jib arm retaining pin, or;

(WTJ) pull the jib arm retaining pin from the middle hole in the front of the jib head. Raise the jib arm to the desired angle, align the jib arm hole with whichever hole it is nearest to at the front of the jib's head, and reinsert the jib arm retaining pin.

OPERATION INSTRUCTIONS CONT'D

- If desired, the jib arm can be extended outward to pick up loads farther from the jib pole. Pull the pin from the middle of the jib arm, grasp the end of the inner jib arm section, and pull outward.

Warning: Only lift loads that are directly below the hook. Do not use the lifting jib in any application that will create side-loading of the cable or the jib arm. Never use the jib to pull or drag loads.

Warning: Do not attempt to move the inner jib arm in or out when a load is hanging on the load hook.

Note: Lower the load hook before attempting to pull the inner jib arm out.

Caution: Verify that the securing pin is fully inserted through the jib arm before lifting a load to prevent the telescoping section from sliding unexpectedly during use.

- Tighten the rotation locking bolt to prevent the load from swinging as it is raised.
- Lower the load hook, and secure the load's rigging to the load hook.

Warning: The load hook's safety latch must be closed before lifting a load.

- Press the "UP" button to raise the load.

Note: Keep one hand on the underside of the jib arm to steady it as the load is raised.

Caution: Watch the load and the jib arm for signs of excessive loading as the load is raised.

- If necessary, loosen the rotation locking bolt and swing the load to the desired location, then press the "DOWN" button to lower it.

Caution: Ensure that the load is stable before releasing the rigging from the load hook.

- Stow the lifting jib with the inner jib arm completely retracted and securely pinned, and lowered so that it is parallel with the jib mast. With the load hook sufficiently below the end of the jib arm pulley:

(WTJ-E) unpin the jib arm at the end of the jib arm support, or;

(WTJ) if necessary, adjust the jib arm to the lowest hole in the front of the jib head. Unpin the jib arm at the rear of the jib head and lower it until it is lowered and parallel to the mast.

- Secure the jib arm against movement:

(WTJ-E) repin the end of the jib arm support at the bracket located about halfway up the jib arm, or;

(WTJ) replace the pin in the center hole at the front of the jib head.

Caution: The jib arm must be folded down and secured alongside the jib mast before moving the vehicle to which it is mounted. Never move the vehicle while a load is suspended from the lifting jib!

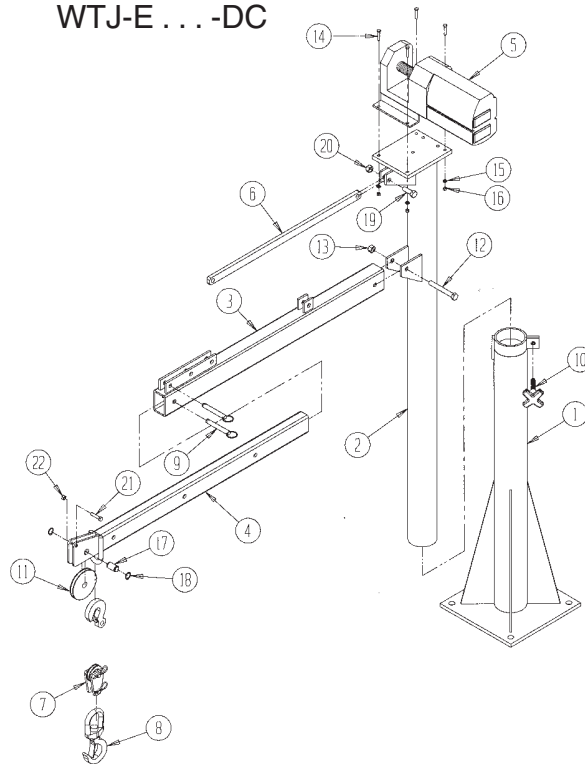
Caution: The electric motors are designed for intermittent duty. Extended use without cooling will cause overheating which can damage the motor. The maximum continuous run time is three minutes. Monitor the motor temperature whenever the winch is being operated frequently.

Note: Consult and read the winch owner's manual for details regarding the winch's operation, maintenance, and servicing requirements.

Ensure that all safety and warning labels stay in place and are legible. Refer to the labels page in this manual.

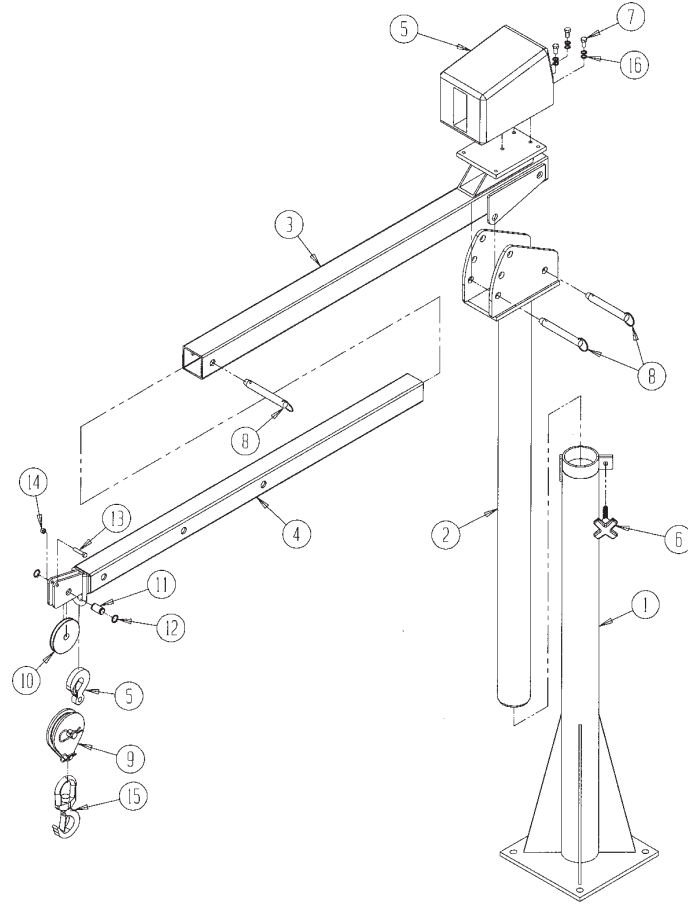
EXPLODED PARTS VIEW AND BILL OF MATERIALS

WTJ-E . . . -DC



ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	Weldment, base	28-514-098	1
2	Weldment, jib mast	28-514-097	1
3	Weldment, main jib	28-514-095	1
4	Weldment, telescoping jib	28-514-096	1
5	Winch, 12V DC	KY-1001-05	1
6	Bar, jib support	28-037-005	1
7	Pulley	KY-1005-03	1
8	Hook, swivel, 2-ton	08-145-001	1
9	Pin, hitch, 1/2"Ø x 3-3/4" long	99-112-004	2
10	Handle, clamping	99-025-001	1
11	Pulley, 4"Ø, 3/4" bore	KY-1001-04	1
12	Bolt, hex head, 1/2" -13 UNC x 4" long	A/L	1
13	Nut, hex, 1/2" -13 UNC	A/L	1
14	Bolt, hex head, 1/4" -12 UNC x 1-1/4" long	A/L	4
15	Washer, lock, 1/4" D	A/L	4
16	Nut, hex, 1/4" -20 UNC	A/L	4
17	Pin, pulley, 3/4" Ø	01-112-009	1
18	Snap ring, external, 3/4" Ø	A/L	2
19	Bolt, hex head, 1/2" -13 UNC x 1-1/2" long	A/L	1
20	Nut, hex nylock, 1/2" -13 UNC	A/L	1
21	Bolt, hex head, 5/16" -18 UNC x 1 1/2" long	A/L	1
22	Nut, hex, 5/16" -18 UNC	A/L	1
23	Disk, friction, UHMW (not shown)		1

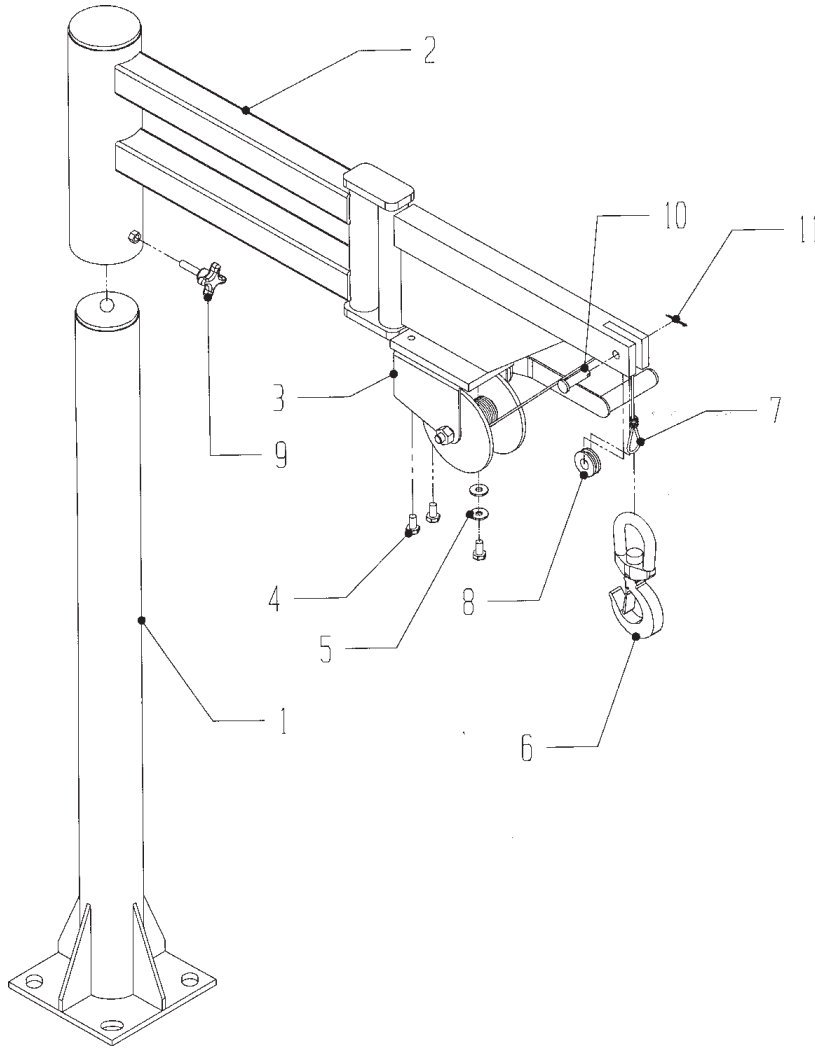
EXPLODED PARTS VIEW AND BILL OF MATERIALS
WTJ-E ... -AC



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ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	Weldment, base	28-514-091	1
2	Weldment	28-514-092	1
3	Weldment	28-514-094	1
4	Weldment	28-514-093	1
5	Winch, 120 VAC	KY-1012-06	1
6	Handle, clamping	99-025-001	1
7	Bolt, hex head, 3/8" -16 UNC x 3/4" long	A/L	1
8	Pin, quick-release, 3/4" Ø x 6" long	28-112-018	1
9	Pulley	KY-1012-05	1
10	Pulley, 4" Ø, 3/4" Ø bore	KY-1001-04	1
11	Pin, pulley	01-112-009	1
12	Snap ring, external, 3/4" Ø	A/L	2
13	Bolt, hex head, 5/16" -18 UNC x 1-1/2" long	A/L	1
14	Nut, hex, 5/16" -18 UNC x 11/2" long	A/L	1
15	Hook, swivel, 2-ton	08-145-001	1
16	Washer, flat, 3/8" ID	A/L	6
17	Disk, friction, UHMW (not shown)		1

**EXPLODED PARTS VIEW AND BILL OF MATERIALS
VAN-J**



ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	Weldment, base, 3-1/2"Ø x 44-1/2" long	28-514-077	1
2	Weldment, 4"Ø x 14-1/2" long	28-514-076	1
3	Winch, hand	21-042-002	1
4	Bolt, hex head, 3/8" -16 UNC x 3/4" long	A/L	3
5	Washer, flat, 3/8"Ø	A/L	2
6	Hook, swivel, 2-ton	08-145-001	1
7	Cable, 1/8"Ø x 10' long	28-145-006	1
8	Pulley	21-027-001	1
9	Knob, 3/8" -16 UNC x 1-1/2" long	08-025-007	1
10	Pin, clevis, 1/2"Ø x 1-3/4" long	A/L	1
11	Pin, cotter, 1/8"Ø	A/L	1

ROUTINE MAINTENANCE & SAFETY CHECKS

- *Warning: Care should be taken to identify all potential hazards and comply with applicable safety procedures before beginning work. Correct any found problems before using the lifting jib.*
- *Warning: Remove any load from the winch cable before beginning any inspections or work on the unit.*
- *Only qualified individuals trained to understand mechanical devices and their associated electrical and hydraulic circuits should attempt troubleshooting and repair of this equipment.*
- *Warning: Do not use the lifting jib if physical damage is observed to any part of the mast or jib arm.*

(A) Before each use inspect for the following:

- 1.) Evidence of fraying or damage to winch wiring.
- 2.) The presence of the grounding prong on the winch's power cord.
- 3.) Damage or structural deformation to the jib's structural members, pulleys, hook, winch, or the area of the jib's mounting surface on the vehicle.
- 4.) Fraying, cuts, corrosion, deformation, or damage to the winch cable.
- 5.) Proper operation of the load hook's safety latch.
- 6.) Unusual noise or binding, or evidence thereof.

(B) Inspect monthly for:

- 1.) Worn or damaged electrical wires.
- 2.) Pivot point wear, difficulty turning the jib pole.
- 3.) Integrity of the retaining hardware on all pins and the base.
- 4.) The integrity of the vehicle bed onto which the lifting jib is mounted, particularly around the jib's base.
- 5.) Looseness, wear, or damage to the winch cable pulleys.
- 6.) Deformation or fatigue of any structural members, and cracks in weldments.
- 7.) Unusual noises or movement during operation.
- 8.) All the information, safety, and warning labels being in place and in good condition.

(C) Bi-annually, test the lifting jib at 125% of its rated capacity. After the test, no evidence of deformation, cracking, fatigue, or other damage should be seen on the load hook assembly, the pulleys, the lifting jib, or the vehicle surface to which it is mounted. Observe for stretching, fraying or "birdnesting" of the lifting cable. *If any damage is evident, remove the lifting jib from service immediately and make any repairs necessary.*

Note: The unit must be retested at 125% of its rated capacity after any repairs or modifications are made to either the lifting jib or its mounting.

TROUBLESHOOTING GUIDE

Warning: Before performing any task, always remove any load and disconnect the power supply.

Consult the factory for problems at time of installation, or for any problems not addressed below.

<u>Problem:</u>	<u>Possible cause(s):</u>	<u>Action:</u>
Winch doesn't run when button is pushed.	No supply voltage.	Test with meter. Check for any open protective devices. If circuit protection has opened, test all parts of circuit with a multimeter to determine the cause. Verify that the power supply cord and/or control cord is connected. Test with a multimeter.
Jumpy load cable operation.	Bad connection in control circuit. Battery voltage low (DC units). Poor spooling of the cable on the winch reel.	Test with volt meter. Charge battery if low. (12.65V full charge) Spool out and inspect the cable for kinks, etc. Replace if bad. Respool the cable cleanly onto the winch reel.
Winch motor hums but does not turn.	Kink in the cable. Overload condition. Supply voltage low.	Reduce the load. Verify that the cable is not binding. Check with meter. Charge battery (DC) or supply with a large extension cord (AC).
Jib pole does not want to rotate.	Rotation locking bolt is tightened. Bearing disk under inner jib pole section is worn excessively.	Loosen the bolt. Pull the jib mast apart and inspect. Replace if necessary.
Personnel receive an electrical shock when touching the jib or the vehicle when the winch is operated.	Operating the winch in wet conditions. Winch wiring problem.	Allow the winch to dry completely before use. Have the winch circuit checked by an electrician, including the grounding circuit.

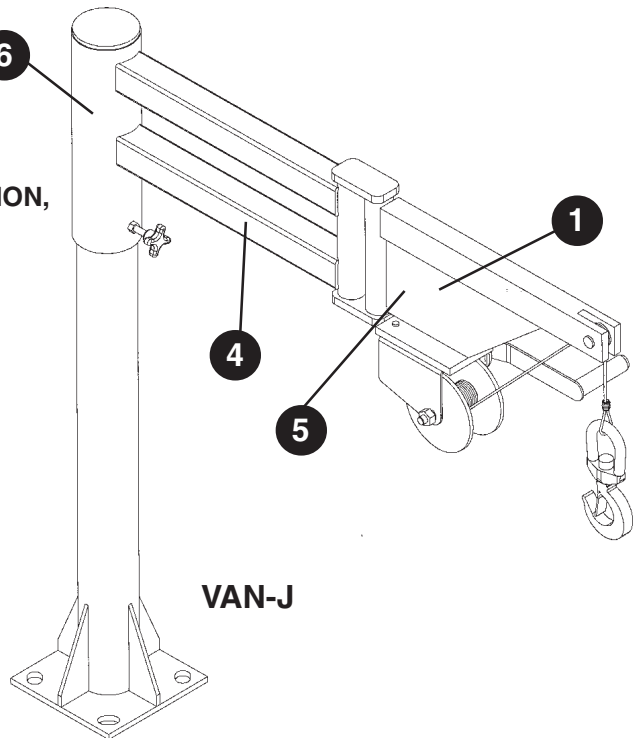
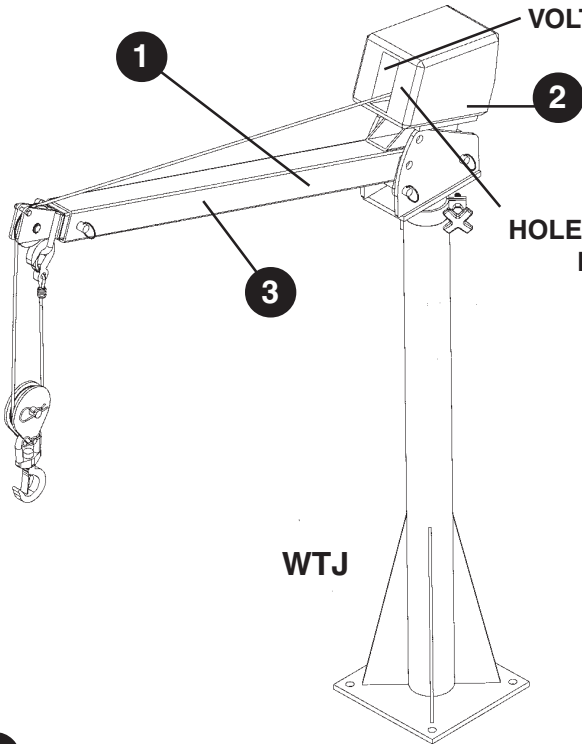
SAFETY LABEL IDENTIFICATION

- Product safety signs or labels should be periodically inspected and cleaned by the product users as necessary to maintain good legibility for safe viewing distance — ANSI 535.4 (10.21). Contact the manufacturer for replacement labels.

BOTH SIDES

1	⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
	<ul style="list-style-type: none"> • DO NOT exceed rated capacity • LOWER LOAD before moving to avoid load swing • NEVER STAND under, beside or in front of load • USE on hard level surface • INSPECT connections before using • READ manual before use 	<ul style="list-style-type: none"> • No exceda la capacidad tasada • Descienda la carga antes de mover para evitar que la carga se balancee • Nunca se sitúe debajo, al lado o delante de la carga • Use en una superficie a nivel dura • Inspeccione las conexiones antes del uso • Lea el manual antes del uso 	<ul style="list-style-type: none"> • NE PAS DÉPASSER la capacité nominale • DESCENDRE la charge avant de la transporter pour éviter la giration • JAMAIS vous mettre sous, à côté de ou devant une charge • UTILISER sur un sol plat et dur • INSPECTER les connexions avant utilisation • LIRE le guide avant utilisation
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VOLTAGE LABEL

HOLE IDENTIFICATION,
BOTH SIDES

6

Tighten knob before moving vehicle.
Apriete la perilla antes de vehiculo móvil.
Resserrer le bouton avant de déplacer véhicule.

IN HOUSE LABEL

5

SIDE WITH CRANK

MODEL/MODÉLO/MODÈLE _____

CAPACITY _____ lbs.

CAPACIDAD/CAPACITÉ _____ kgs.

SERIAL/SERIE/SÉRIE _____

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BOTH SIDES

BOOM CAPACITY CHART WTJ-20-4 (AC OR DC)				
DEGREE OF LIFT	BOOM EXTENSION			
	4 FT	5 FT	6 FT	7 FT
60°	2000 LBS	2000 LBS	1900 LBS	1800 LBS
40°	1850 LBS	1450 LBS	1250 LBS	1050 LBS
20°	1500 LBS	1200 LBS	1000 LBS	850 LBS

4

CLEAR BACKGROUND WITH YELLOW TEXT

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